

# SEQUENCE LISTING

<110> Bayer Aktiengesellschaft

<120> Ultraspiracle (USP) protein from Heliothis virescens

<130> Le A 34 771

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<150> DE 100 36 469.1

<151> 2000-07-25

<160> 2

<170> PatentIn Ver. 2.1

<210> 1

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<212> DNA

<213> Heliothis virescens

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<221> CDS

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15

atc aac tgg gct cga ccc ttg ccg ccg ggc caa cag cag cag ccg atg 96

Ile Asn Trp Ala Arg Pro Leu Pro Pro Gly Gln Gln Gln Gln Pro Met

20

25

30

acg cct acg tcg ccc gga aac atg ctt caa ccg atg gct acg ccg tct 144

Thr Pro Thr Ser Pro Gly Asn Met Leu Gln Pro Met Ala Thr Pro Ser

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aac tta ccg act gtc gac tgc tca ctc gat att caa tgg cta aac ttg 192

Asn Leu Pro Thr Val Asp Cys Ser Leu Asp Ile Gln Trp Leu Asn Leu

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gag gga ggt ttt atg tcg ccg atg tca ccg ccg gag atg aag cca gac 240

Glu Gly Gly Phe Met Ser Pro Met Ser Pro Pro Glu Met Lys Pro Asp

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70

75

80



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Arg Gln Glu Val Glu Val Leu Arg Glu Lys Met Phe Leu Cys Leu Asp	
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1398

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Asn Leu Pro Thr Val Asp Cys Ser Leu Asp Ile Gln Trp Leu Asn Leu  
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Glu Gly Gly Phe Met Ser Pro Met Ser Pro Pro Glu Met Lys Pro Asp  
65 70 75 80

Thr Ala Met Leu Asp Gly Leu Arg Asp Asp Ser Thr Pro Pro Pro Ala  
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Phe Lys Asn Tyr Pro Pro Asn His Pro Leu Ser Gly Ser Lys His Leu  
100 105 110

Cys Ser Ile Cys Gly Asp Arg Ala Ser Gly Lys His Tyr Gly Val Tyr  
115 120 125

Ser Cys Glu Gly Cys Lys Gly Phe Phe Lys Arg Thr Val Arg Lys Asp  
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Leu Thr Tyr Ala Cys Arg Glu Glu Arg Asn Cys Ile Ile Asp Lys Arg  
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Gly Thr Glu Asp Ala His Pro Ser Ser Ser Val Gln Val Gln Glu Leu

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Lys Phe Arg Ala Pro Val Ser Ser Leu Cys Gln Ile Gly Asn Lys Gln		
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Ile Ala Ala Leu Val Val Trp Ala Arg Asp Ile Pro His Phe Ser Gln		
260	265	270
Leu Glu Met Glu Asp Gln Ile Leu Leu Ile Lys Gly Ser Trp Asn Glu		
275	280	285
Leu Leu Leu Phe Ala Ile Ala Trp Arg Ser Met Glu Phe Leu Thr Glu		
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Gln Leu Met Cys Leu Met Pro Gly Met Thr Leu His Arg Asn Ser Ala		
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Ser Leu Lys Met Arg Thr Leu Arg Val Asp Gln Ala Glu Tyr Val Ala		
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Leu Lys Ala Ile Ile Leu Leu Asn Pro Asp Val Lys Gly Leu Lys Asn		
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Arg Gln Glu Val Glu Val Leu Arg Glu Lys Met Phe Leu Cys Leu Asp		
385	390	395 400
Glu Tyr Cys Arg Arg Ser Arg Ser Ser Glu Glu Gly Arg Phe Ala Ala		
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Leu Leu Leu Arg Leu Pro Ala Leu Arg Ser Ile Ser Leu Lys Ser Phe		
420	425	430
Glu His Leu Phe Phe Phe His Leu Val Ala Asp Thr Ser Ile Ala Gly		
435	440	445
Tyr Ile Arg Asp Ala Leu Arg Asn His Ala Pro Pro Ile Asp Thr Asn		

